



CUSTOMER NUMBER 25268

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kollé et al.

Attorney Docket No. TEMP0011

Serial No.: 10/777,484

Group Art Unit: 3672

Filed: February 12, 2004

Examiner: Stephenson, Daniel P.

Title: HYDRAULIC IMPULSE GENERATOR AND FREQUENCY SWEEP
MECHANISM FOR BOREHOLE APPLICATIONS

ELECTION TRANSMITTAL LETTER

Bellevue, Washington 98004

March 14, 2006

TO THE COMMISSIONER FOR PATENTS:

A. Election Transmittal

Transmitted herewith is an election in the above-identified patent application.

- ☒ 1. No additional claim fee is required, as shown below.
- ☐ 2. The claim fee has been calculated, as shown below.
- ☐ 3. Check No. _____ in the amount of \$_____ is enclosed to cover the fee(s) shown below.

B. Request for Constructive Petition for Extension of Time

It is requested that any concurrent or future reply submitted in the present application requiring a petition for an extension of time under 37 CFR 1.136(a)(3) for timely submission be treated as incorporating a petition for extension of time for the appropriate length of time. It is also requested that any additional required fees under § 1.17, including all required extension of time fees, be charged to Deposit Account No. 01-1940, thereby constructively petitioning for any necessary extension of time to maintain the present application in a pending state.

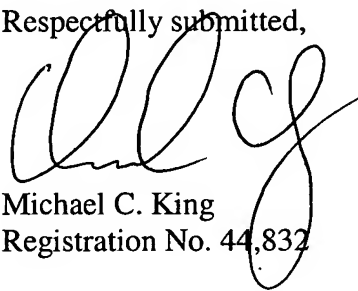
<u>Computation of Fee For Claims as Amended</u>					
	<u>Claims Remaining after Amendment</u>	<u>Highest Number Previously Paid For</u>	<u>Present Extra</u>	<u>Rate</u>	<u>Additional Fee</u>
Total Claims	74	74	-0-	x \$25	\$ -0-
Independent Claims	16	16	-0-	x \$100	-0-
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$ <u>0</u>

C. Additional Fee Charges or Credit for Overpayment

Please charge any additional fees or credit any overpayment to Deposit Account No. 01-1940.

A copy of this sheet is enclosed.

Respectfully submitted,

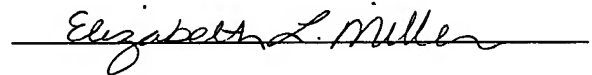


Michael C. King
Registration No. 44,832

MAILING CERTIFICATE

I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed envelope as first class mail with postage thereon fully prepaid addressed to: Commissioner for Patents, Alexandria, VA 22313-1450, on March 14, 2006.

Date: March 14, 2006





CUSTOMER NUMBER 25268

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kollé et al. Attorney Docket No: TEMP0011
Serial No: 10/777,484 Group Art Unit: 3672
Filed: February 12, 2004 Examiner: Stephenson, Daniel P.
Title: HYDRAULIC IMPULSE GENERATOR AND FREQUENCY SWEEP
MECHANISM FOR BOREHOLE APPLICATIONS

ELECTION IN RESPONSE TO RESTRICTION REQUIREMENT

Bellevue, Washington 98004

March 14, 2006

TO THE DIRECTOR OF THE PATENT AND TRADEMARK OFFICE:

The following is in response to a Restriction Requirement mailed February 23, 2006, in which the Examiner restricted the above-identified patent application. The Examiner has indicated that this application contains claims directed to nine patentably distinct inventions, as follows:

Invention I encompasses Claims 1-29 (including independent Claims 1 and 21) and corresponds to a valve apparatus (classified in class 251, subclass 25);

Invention II encompasses Claim 30 and corresponds to a method for generating pressure pulses within a conduit (classified in class 166, subclass 373);

Invention III encompasses Claims 31-33 (including independent Claims 31 and 33) and corresponds to a method of using vibrations to reduce friction on a drill string (classified in class 166, subclass 301);

Invention IV encompasses Claim 34 and corresponds to a method of using vibrations to reduce undesirable drill string motion (classified in class 175, subclass 57);

Invention V encompasses Claims 35-56 (including independent Claims 35, 40 and 52), which corresponds to an apparatus for introducing repetitive pulses through a conduit (classified in class 175, subclass 1);

Invention VI encompasses Claims 57-67 (including independent Claims 57 and 67), which corresponds to a method of seismic analysis while drilling (classified in class 175, subclass 40);

Invention VII encompasses Claims 68-70 (each of which is an independent claim), which encompasses a method of downhole cleaning (classified in class 166, subclass 311);

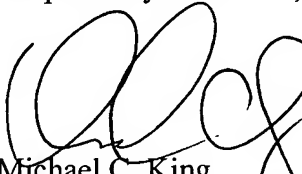
1 Invention VIII encompasses Claim 71 and corresponds to a method of weakening rock
2 (classified in class 166, subclass 308.1); and

3 Invention IX encompasses Claims 72-74 (including independent Claim 72), which
4 corresponds to a method for detecting for pressure gradients using shear waves (classified in class
5 166, subclass 250.07).

6 Election: In response to this Restriction, applicants hereby affirmatively elect the claims of
7 Invention I (i.e., Claims 1-29), with traverse, as explained below.

8 The Examiner has asserted that the method of Claim 30 (Invention II) can be practiced by a
9 materially different apparatus as compared to the apparatus of Claims 1-29 (Invention I), and even
10 suggests the method could be practiced using a dedicated pressure pulser in place of a valve.
11 Applicants respectfully submit that the method of Claim 30 (Invention II) can only be implemented
12 using a valve that cycles between a first and second position, and that Claims 1-29 (Invention I)
13 define a valve that cycles between a first and second position. Clearly, the apparatus of Invention I is
14 related to the method of Invention II. Thus, it appears proper to examine Inventions I and II together.

15
16 Respectfully submitted,

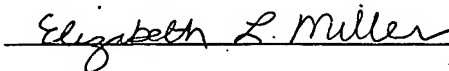
17 
18 Michael C. King
19 Registration No. 44,832
20
21

22 MCK/RMA:elm

23 MAILING CERTIFICATE

24 I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed
25 envelope as first class mail with postage thereon fully prepaid addressed to: Commissioner for Patents,
Alexandria, VA 22313-1450, on March 14, 2006.

26 Date: March 14, 2006

27 
28
29
30